



Supporting the Sustainability goals of the Food & Beverage industry

Building a sustainable, resilient and credible Value Chain with EcoStruxure for Food & Beverage

Life Is On

Schneider
Electric



**Our mission is to be
your digital partner for Sustainability and Efficiency**



**Rethinking next generation industries:
business resilience and sustainability performance
for lifecycle integrated management**

We help on every step of the value chain

Efficient facilities

Safer, more available,
and greener resources

Agile manufacturing

Boost manufacturing
flexibility & efficiency

Resilient supply chain

Manage complexity and
improve visibility

... enabled by transversal digital transformation capabilities

Food Safety & Traceability

Ensure compliance and increase trust across the whole value chain

Energy & Sustainability

Reduce environmental footprint and meet sustainability goals

Asset Performance

Maximize return on asset investment

Workforce Empowerment

Take teams efficiency to the next level

Digital Engineering

Cut time, cost and risks of capital project engineering

Reduce your environmental footprint and meet your sustainability goals



End to End Decarbonization

Tackle your energy challenges by creating an optimized way to access reliable, green, and resilient energy. Reduce GHG emission, scope 1, 2, 3 to address climate change

Towards **Net Zero emissions**



Efficient and sustainable operations

Meet your energy and sustainability goals and reduce costs with smart energy, water and waste management at your facilities

Up to **30%** energy cost reduction



Minimize footprint on environment

Reduce impact on the planet by helping farmers improving productivity and better managing the usage of resources. Protect agriculture and ecosystems.

For a **better future** from agriculture to packaging



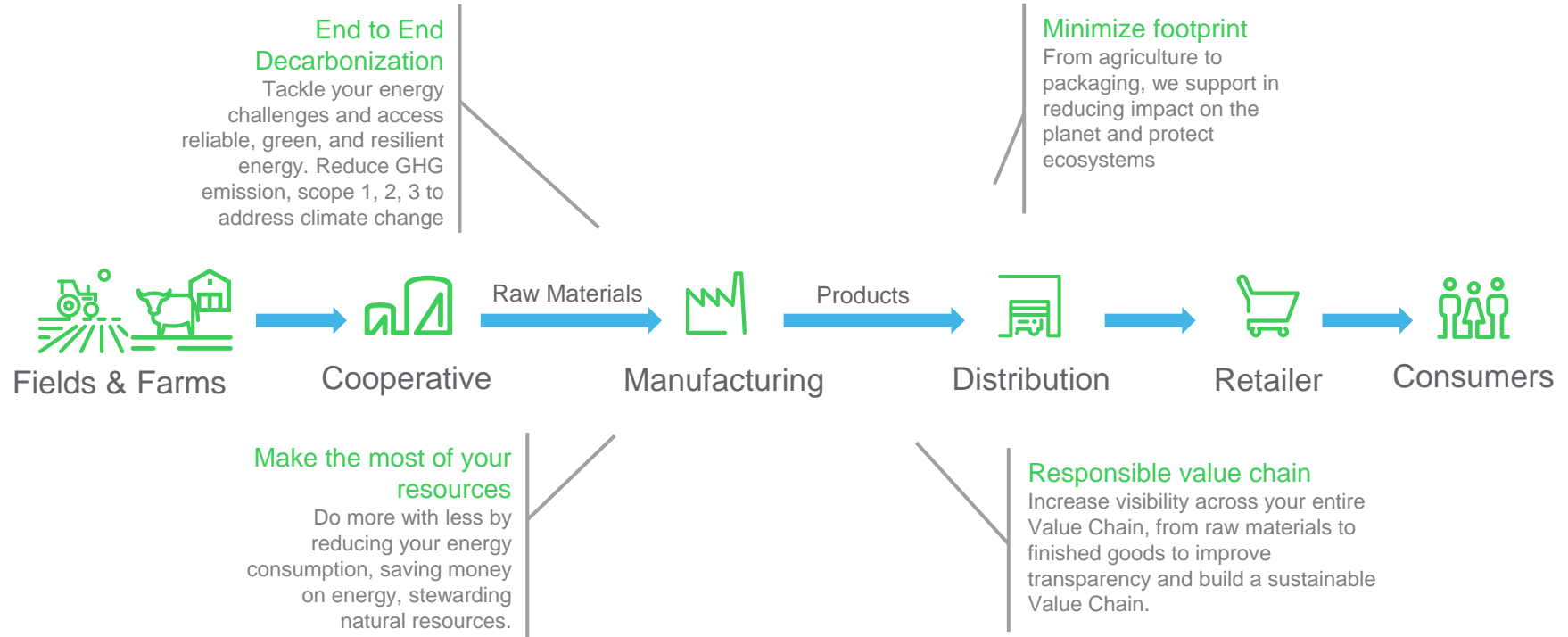
Responsible Value Chain, end to end

Increase visibility across your entire Value Chain, from raw materials to finished goods to improve transparency and build a sustainable Value Chain.

Build a **sustainable** Value Chain

Energy & Sustainability

Reduce your environmental footprint and meet your sustainability goals



A woman with short dark hair, wearing a white t-shirt and a striped apron, stands in a greenhouse filled with rows of leafy green plants. She is holding a bunch of these plants in her gloved hands, looking at them with a slight smile. The background shows the structure of the greenhouse and more rows of plants stretching into the distance.

Supporting the Sustainability goals of the Food & Beverage industry

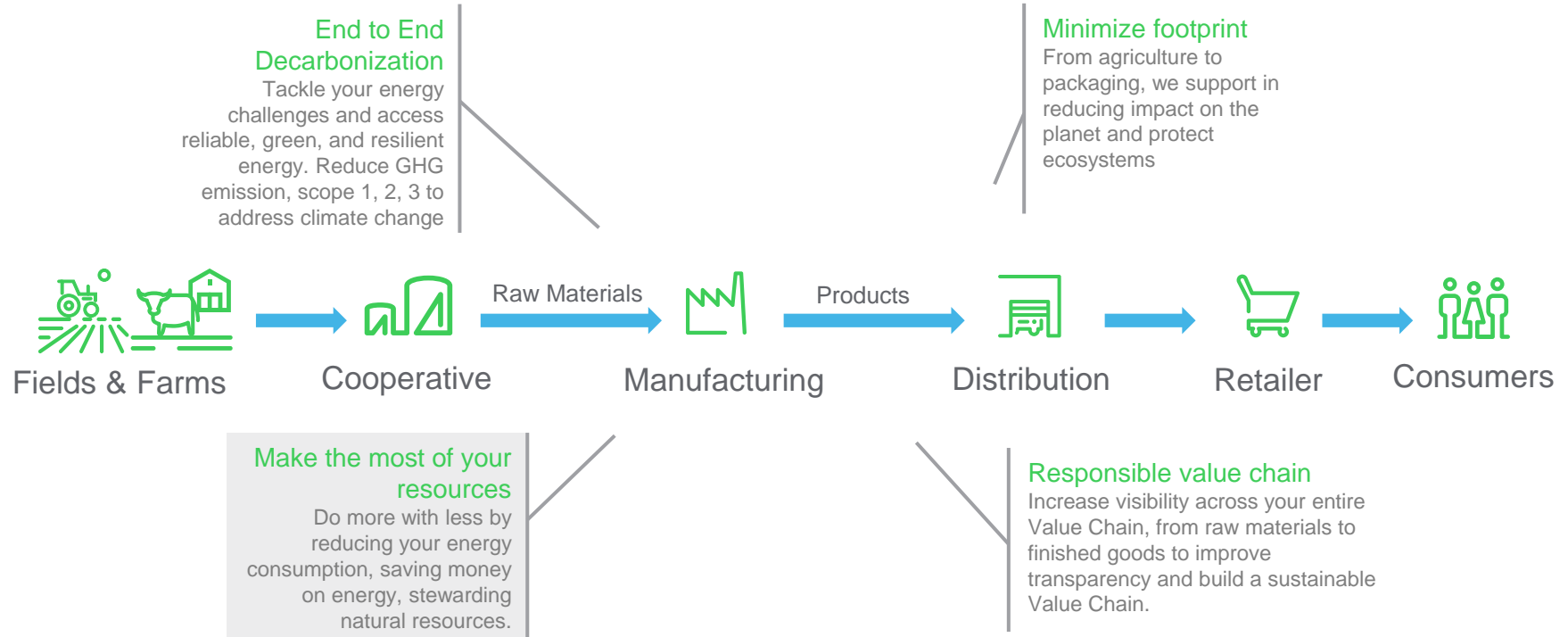
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Energy & Sustainability

Reduce your environmental footprint and meet your sustainability goals



Efficient and sustainable processes



Do more with less

Make the most of resources by reducing your energy consumption, saving money on energy, stewarding natural resources, and reducing your overall impact on environment.

Holistic approach to energy and sustainability

- Active Energy Management
- Energy as a Service (EaaS)

Digital solutions for the plant

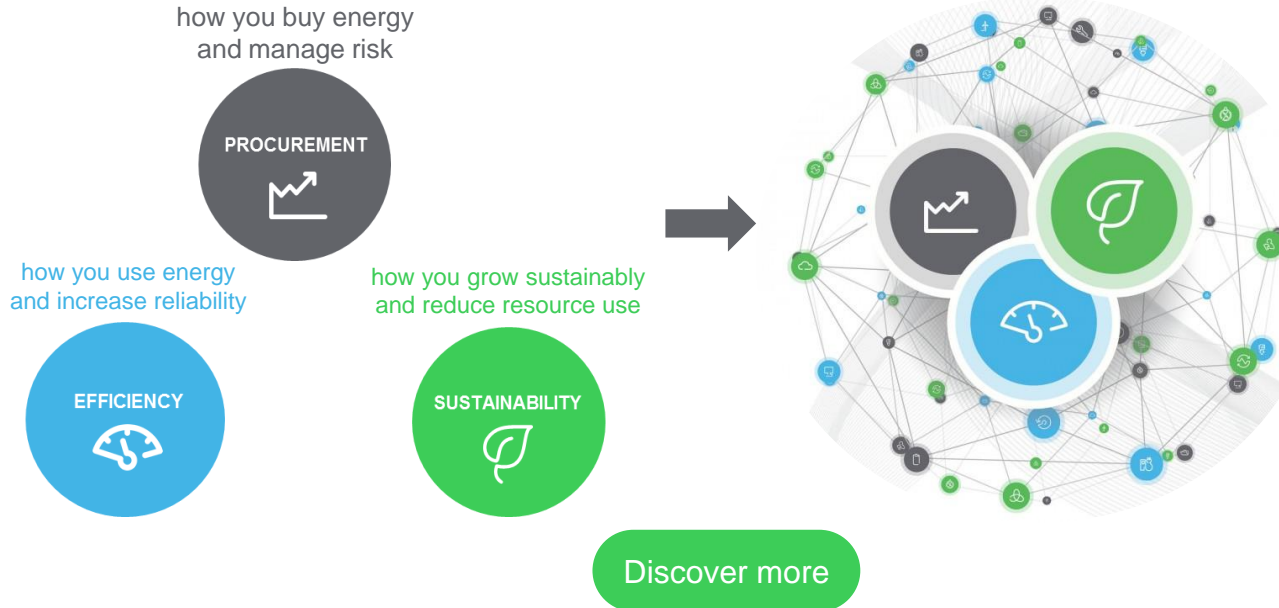
- Industrial software
- Clean-in-Place Operations



The Trend toward Convergence

At Schneider Electric, we promote a holistic approach to energy and sustainability

Convergence leads to a holistic view of strategies, data and resources needed to **reduce consumption, drive innovation and maximize savings.**



“**97%** of CEOs surveyed by [Accenture](#) in 100 countries believe that sustainability is important to the future success of their business”

\$450 billion spent by businesses on efficiency and sustainability initiatives each year

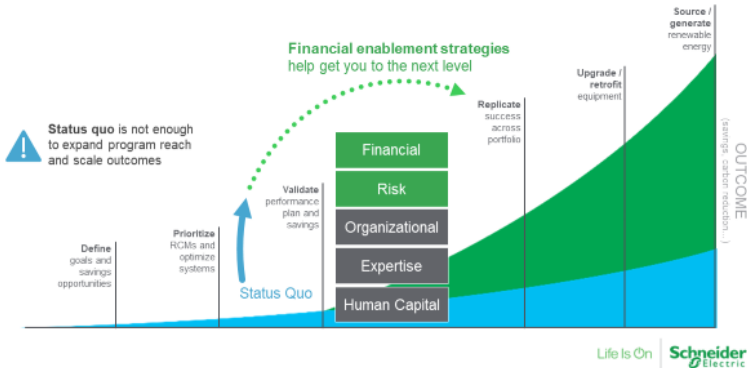
44% of industry professionals indicate that "lack of coordinated planning" is a challenge

Energy Management Programs

Removing capital burden and risk exposure to scale impact and maximize ROI

The solution

What's standing between you and the rest of your plan?



Business value

- Programmatic approach to accelerate efficiency programs on a global scale
- Tailored business models to meet calculated, timely outcomes
- Access to capital with flexible models on cash flow, accounting treatment and asset ownership
- Outcome assurances with performance guarantees and proven M&V methodology and documentation

Learn more

Watch the video

Agrial: From Energy Intense to Efficient

Purpose

- Implement a far-reaching energy performance solution combining energy audits and an energy performance contract
- Achieve guaranteed savings
- Save 10% on energy by 2025

Path

- Approved selection of three test Agrial facilities
- Completed an in-depth audit of the equipment and energy consumption
- Assessed the potential energy savings and how we could achieve the stated goals

Solution

- Select the plants with the highest energy-savings potential
- Confirm the potential for savings exists
- Replace lamps, add insulation, and set up energy monitoring tools

Results

- 17% total energy savings
- 10% energy savings in 3 years
- Achieved ROI in three years (2 less than expected)
- Selected 7 more Agrial plants for the next program roll-out



10%

reduction in the plant's energy spend in just three years

WATCH VIDEO

Discover our customer's journey to sustainability

Discover how Royal Canin has harnessed Active Energy Management and learn more about their journey.



[Read the story](#)

[Watch the video](#)

How procurement accelerates digitization in F&B new-generation industries with Olam



[Watch the video](#)

[Read the blog](#)

Energy-as-a-Service (EaaS)

Reduce your energy consumption, save money on energy and reduce your overall impact on environment

The solution

- EaaS is a funding model for projects ranging from energy supply to establishing more renewables.
- It's not limited to the energy production and energy efficiency assets; it can also span new infrastructure.
- Includes long-term service agreements with a performance
- We design, build, own and operate energy systems that meet your comprehensive goals.

« An industrialized setup providing a single point of interface with customers and managing financial and commercial risks over the life cycle »

Business value

- Increasing resilience and reliability
- Cost predictability with no capital outlay.
- Improve productivity
- Meet your sustainability objectives.

[Watch the Role of Procurement video](#)

[Learn about the evolution of EaaS](#)

[Read the blog](#)

Digital solution delivering Energy and Asset management Enterprise Platform

Beverage player, Europe



Customer Challenge

- Increased operational efficiency & sustainability
- Local v Global challenges – benchmarking & performance management locally versus Corporate goals
- Local Challenges:
 - Multiple siloed data gathering systems
 - Data manually read & collated into excel tracking system
 - Lack of timely & actionable information
 - Performance management & M&V (support ISO50001 program)
 - Asset management – lack of visibility on performance & status of key plant & assets

The Solution

- Energy & Asset Management Enterprise Platform delivered as a turnkey solution including:
 - EcoStruxure Resource Advisor
 - EcoStruxure Building Operation with integrated EcoStruxure Power Monitoring Expert (PME)
 - Integration of multiple 3rd party systems (BMS / PLC etc.)
 - Specification & installation of new metering (WAGES)
 - Consultancy Services

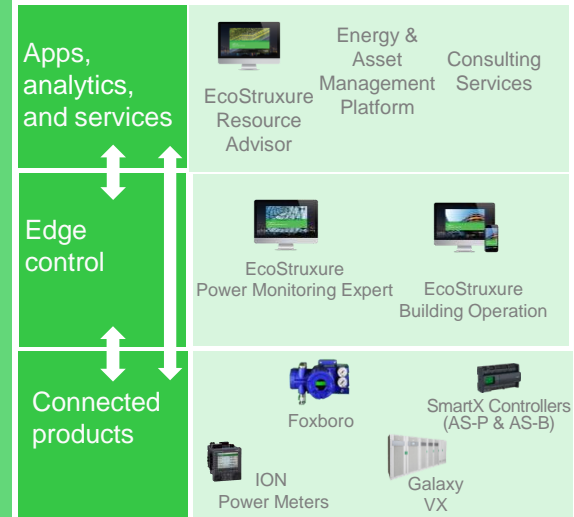
Customer Benefits

- Site profile visibility & global benchmarking capability
- Optimize equipment utilization and the cost of operations thru KPI & continuous improvement monitoring
- Asset management – plant visualization & control
- Corporate Dashboards - enhance public image and social responsibility through communication of energy & sustainability metrics to multiple stakeholders
- Aid in the sites on-going ISO50001 program
- Ensure electrical network reliability and reduce downtime
- Future proofed & scalable architecture with control functionality

The Results: Life is On with... Reduced energy-related costs, water consumption and GHG emissions

Global leading beverages company. European operations

EcoStruxure for Food & Beverage
Innovation At Every Level



Inner Mongolia Yili Industrial Group Co., Ltd

A model for smart manufacturing and energy efficiency in the dairy industry



Customer Challenges

- Rebuilding public trust after the dairy safety crisis to prove that manufacturing is secure and smart
- Rising energy costs and strict emissions reduction targets
- Specified statistics and analyses for decision-making
- Scientific quantification of energy input-output ratio

Solution

- A complete energy management solution with EcoStruxure Plant, leading to sustainable development and helping to achieve a smart dairy industry
- Real-time monitoring and management of the energy efficiency status of equipment
- Industry expertise and experience helping dairy producers to save energy & increase efficiency, with multiple references in this area

Customer Benefits

- Energy efficiency improved by 19%
- Operational costs reduced by 5%.
- Improved accuracy in process and energy data through automatic collection
- Better and more timely decision making as the basis for operational improvements
- New industry benchmarks set for energy efficiency & operations management
- Complete transparency between energy demand side and supply side distribution
- Labor costs reduced and efficiency improved

The Results: Life Is On with...

19% improvement in energy efficiency and **5%** reduction in energy costs

"By applying Schneider Electric's EcoStruxure Plant... we have achieved transparent and efficient operations management, with operational efficiency increased by 19% and energy costs reduced by 5%."

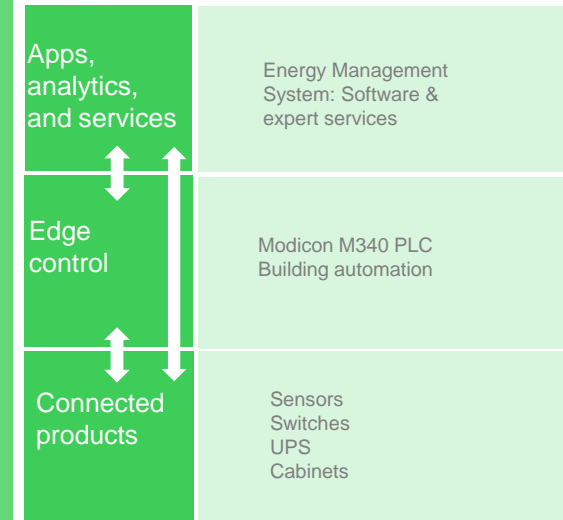
Wei Xiangyun
Deputy Director

Liquid Milk Production Management Department
Yili Group

[Link to Paper](#)
[Link to Video](#)

Asia's biggest dairy enterprise, and the first dairy company listed in MIIT's 2025 smart manufacturing pilot project, takes the lead in building smart factories as part of sustainability strategy

EcoStruxure[™] for Food & Beverage
Innovation At Every Level



AVEVA Industrial software

Increase energy efficiency, help reduce waste, boost circularity to maximize sustainable performance

Combining the power of information and artificial intelligence with human insight to elevate industries' performance, driving sustainability and growth.

Together, OSIsoft and AVEVA are unlocking Performance Intelligence for industrial organizations to achieve sustainable operations



[Learn more](#)

[Watch the video](#)



Wonderware solutions for Waste management system

Customer Challenge

- Minimize impact on the environment by transitioning from fossil fuel-based sources to total renewable energy options.
- To reduce its wastewater impact by increasing its waste diversion rate (sans spent grain and sludge) from 73% in 2007 to 95% by 2015.
- Reduce Water use per barrel by 10%

The Solution

- AVEVA System Platform
- AVEVA InTouch HMI
- AVEVA Historian

Customer Benefits

- Analyze and optimize all energy Usage.
- Batch data was used by accountants for government tax reporting.
- Control lighting system of entire Brewery operation.

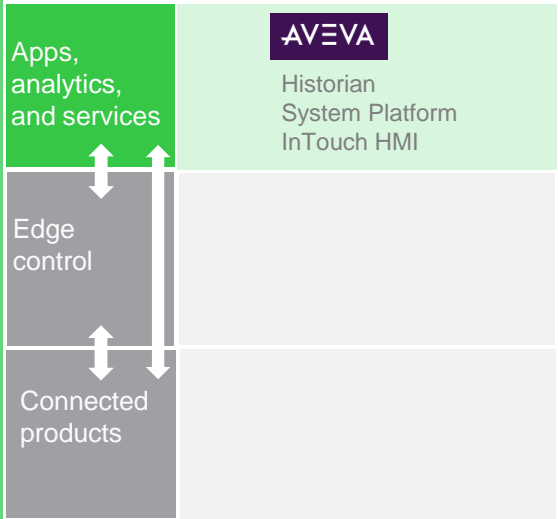
The Results: Life is On with... Sustainable production environment.

“Every Wonderware system is what our operators pretty much use. That’s where our data is being extracted from, so it kind of unites all of the systems together. We unify our plant information through Wonderware, We’ve been utilizing InTouch for 10 years plus for extended period of time. We’re pretty happy with this system.”

[Link to Video 1](#)
[Link to Video 2](#)

Valuyev
 New Belgium Brewery

Ecostruxure for Food & Beverage
 Innovation At Every Level



Almarai, Saudi Arabia

Improved competitiveness with EcoStruxure Plant



Customer Challenge

- Improve competitiveness at local market
- Digitize operations, simplify production processes
- **Be smarter about manufacturing process execution**
- Keep track of production performance
- Guarantee food safety

The Solution

- EcoStruxure for F&B including:
- AVEVA System Platform
- AVEVA Manufacturing Execution System (MES)
- EcoStruxure Power Monitoring Expert

Customer Benefits

- Energy saving 20% at HVAC
- Increase efficiency of packaging lines by 15%
- Reduce water & Energy consumption by 15%

The Results: Life is On with... 6 months Payback

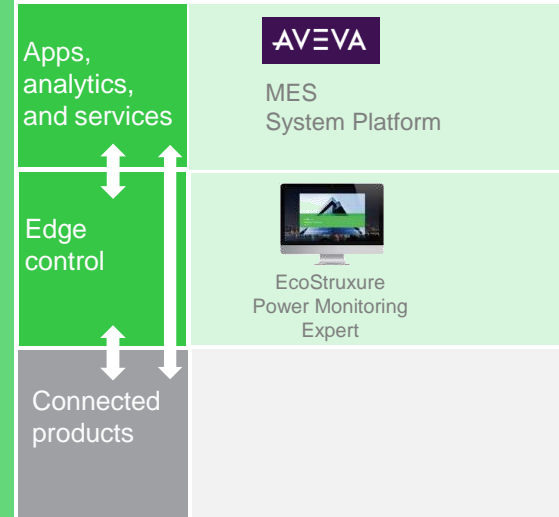
“Schneider Electric Solution has provided a platform to best manage production requirements & initiate process improvement, Our next step is to gain better visibility to this data to empower our team to make smarter, more informed decision”.

Sjur Fitje
General Manager Manufacturing

[Link to Web](#)

Largest Food manufacturer in the Middle-East. Dairy leader in Middle East.

EcoStruxure[™] for Food & Beverage
Innovation At Every Level



Digital Solutions to turn water systems intelligent

Collaborative approach for Unique Monitoring system for Integrated WR Management

1

Develop sustainability through Water efficiency program

2

Leverage on Start-Ups with a strong know-how in Water Efficiency

3

Deploy Globally with all the right certifications & cybersecurity

4

Empower Cross Functional Teams facing Complex Problem Solving

Schneider Electric & AVEVA Value Proposition

Co-Design & Solution Industrialization & Deployment

Resources

Strategic Relationship
Value Creation Approach
Global Coordination &
Local Presence

Interoperability

Adapt to a large number of
factory set-up with open
and scalable architecture

Deployment

Use of Playbook and
Templates to simplify
deployment



Aquassay Value Proposition

Water Efficiency & Digital Services in a Start-Up Mode

- A deep understanding of the technologies and practices of the Water Industry
- A End-to-End Approach of Water efficiency and its challenges
- Software as a Service Approach
- Advance Optimization
- Collaborative Approach

Learn more

Watch the video

Discover our customer's journey to sustainability

Discover how Heineken Spain leveraged data for improved sustainability



[Read the story](#)

[Watch the video](#)

Learn how Syngenta enabled savings of over 68 million gallons of water in Ethanol Plants



[Read the story](#)

Discover how Henkel harnesses its big data to drive sustainability and boost energy efficiency



[Read the story](#)

[Watch the video](#)

EcoStruxure™ Clean In Place Advisor

Unveiling sources of optimization and documenting evidence of proper cleaning



The solution

- Performance Assessment unveil current status of your CIP stations
- Clean-In-Place Advisor monitors real-time operation and document optimization possibilities and cleaning evidences

Typical benefits

- Reduced water and carbon footprint:
 - Up to **30%** energy savings
 - Up to **5%** water and chemical savings
- Higher productivity: up to **15%**
- Improved traceability
- Typical ROI from **6 – 8 months**

Learn more

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Nestlé Waters

Improving production with innovative technologies



Customer Challenges

- Empower workforce with convenient diagnostic tool that's easy to configure & install
- Improve traceability by making it fast & simple to retrieve data on each production batch or cleaning process
- Improve quality by tracking deviations & highlighting abnormal production and Clean-In-Place (CIP) behavior

The Solution

Nestlé selected Schneider Electric's innovative EcoStruxure Clean-In-Place Advisor solution, including OptiCIP software and services, to optimize their CIP operations, because of its:

- Flexibility to adapt the architecture to their IT and automation constraints
- Efficiency to better track and diagnose the process
- Differentiation from the competition who lack the features for this dedicated activity

Customer Benefits

- Improved tracking & diagnosis of processes
- Significant reduction in traceability time and savings per CIP line
- 340t CO₂ used in sparkling water process saved in the first year (50% less for specific lines)
- Increased productivity, with 20% CIP reduction for some lines
- Facilitated commissioning of new production line
- Improved maintenance with dedicated custom features related to usage of the valves (like flip counters)

Life Is On with... **20%** less CIP time

"Thanks to Schneider Electric's EcoStruxure solution we are now able to reduce our production line downtime for CIP by 20%."

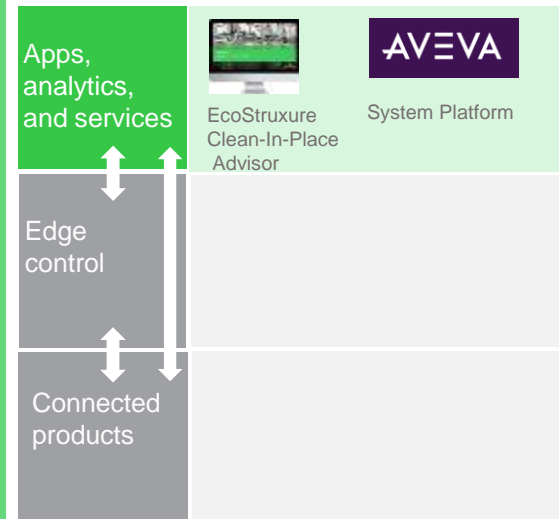
Bernard Flores

Spring industrial process department manager
Nestlé Waters, Vergèze

[Link to Video](#)
[Link to Paper](#)

The world's **largest** bottled water company has **11%** of the market share. The Vergèze plant already has **13** equipped production lines, and is a "laboratory" for innovative solutions

EcoStruxure™
Innovation At Every Level for Food & Beverage



* The Schneider Electric industrial software business and AVEVA have merged to trade as AVEVA Group plc, a UK listed company. The Schneider Electric and Life Is On trademarks are owned by Schneider Electric and are being licensed to AVEVA by Schneider Electric.

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Reduce your environmental footprint and meet your sustainability goals

Let's engage in this journey!

- Towards **Net Zero**
- Doing more with less
- Minimizing impact on environment from agriculture to packaging
- Building a **responsible** and **sustainable Value Chain**, end to end
- Communicating sustainability goals, projects and achievements with all company **stakeholders**.



Up to **50%**
energy cost savings

Up to **-5%**
of OpEx savings

Up to **40%**
CO₂ footprint reduction.

Reduce your environmental footprint and meet your sustainability goals



End to End Decarbonization

Tackle your energy challenges by creating an optimized way to access reliable, green, and resilient energy. Reduce GHG emission, scope 1, 2, 3 to address climate change

Towards **Net Zero emissions**



Efficient and sustainable operations

Meet your energy and sustainability goals and reduce costs with smart energy, water and waste management at your facilities

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For a **better future** from agriculture to packaging



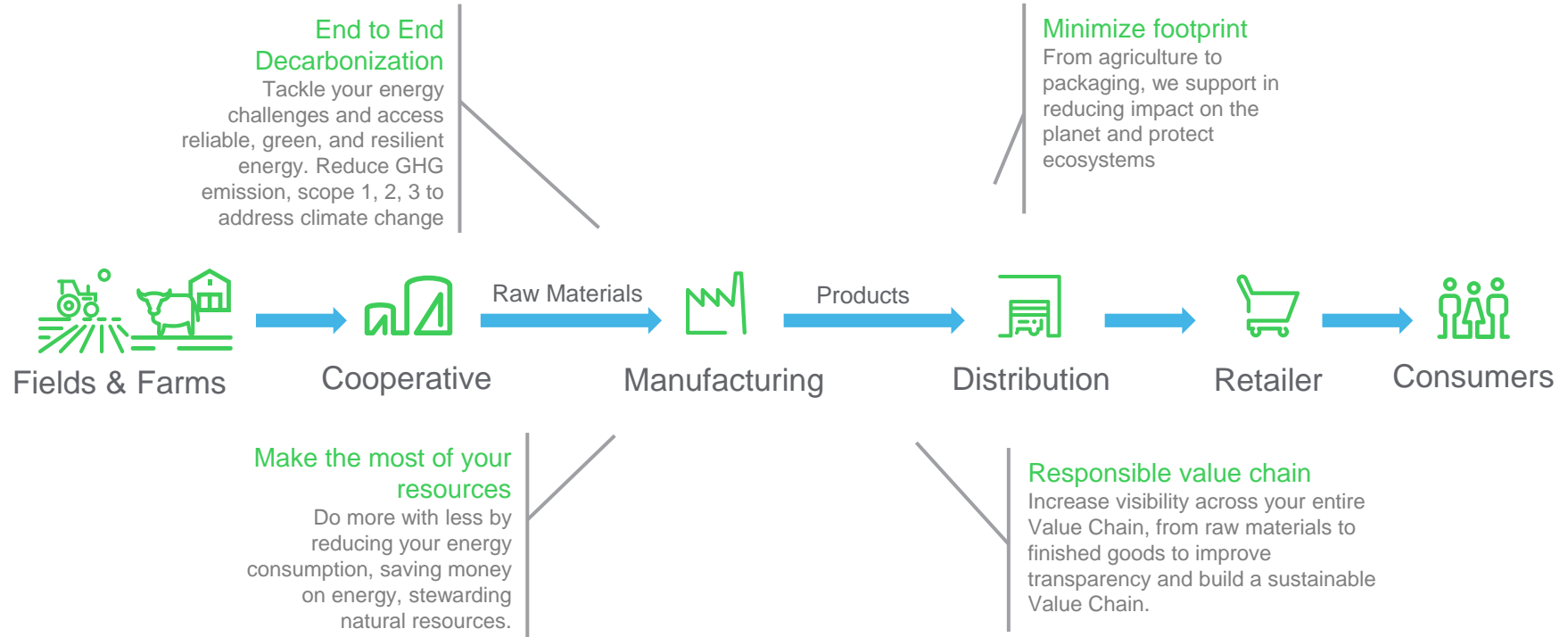
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Increase visibility across your entire Value Chain, from raw materials to finished goods to improve transparency and build a sustainable Value Chain.

Build a **sustainable** Value Chain

Energy & Sustainability

Reduce your environmental footprint and meet your sustainability goals



EcoStruxure for Food & Beverage / CPG

Agile manufacturing
Boost manufacturing flexibility and efficiency

- Manufacturing Operation Management
- Industrial Information Management
- Process Control System
- HMI and data Integration
- Process Automation
- Packaging Automation

Efficient facilities
Safer, more available, and greener resources

- Smart Building Management
- Power Safety & Availability
- Power Quality & efficiency
- Renewable Energy & Microgrids
- IT Infrastructure Management

Resilient supply chain
Manage complexity and reduce logistics costs

- Agriculture Efficiency & Sustainability
- Suppliers Management
- Supply Chain Optimization
- Cold Chain Monitoring
- Product Information Management

Food Safety & Traceability Ensure compliance and trust across the product life cycle	Energy & Sustainability Reduce footprint and meet sustainability goals	Asset Performance Maximize return on capital expenditure	Workforce Empowerment Improve staff knowledge, productivity and collaboration	Digital Engineering Cut time, cost and risks of capital project engineering
Food Defense	Sustainability Consulting	Assessment and Consulting	Operator Training Simulator	Electrical CAD
Cybersecurity Services	Energy Demand Services	Enterprise Asset Management	Augmented & Virtual Reality	Building Information Modelling
Digital Calibration	Strategic Energy Sourcing	Condition Monitoring	Workflow Management	Integrated Engineering-Design
Raw material traceability	Enterprise data management	Predictive Analytics	Staff Schedule Management	Digital Asset Visualization
Production traceability	Energy as a Service	Line & Process Optimization	Operator Knowledge Sharing	
Product Identification & Tracking		Modernization services		

Let's talk about

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for Food & Beverage

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